· Appliand on Physical Moved and Page 1997 (1994) Amdt. Dated: Off. Act. Dated:

02/17/2005 11/17/2004

Amendments forthe Claims

This listing of claims will replace all prior versions, and listings, of claims in the entage among application:

/mendments.

Listing of Claims:

- 1. (original): A method comprising: determining an overrun in the encoding of an input bitstream; determining the severity of the overrun; and encoding a current frame using at least one catch-up mode to process the overrun.
- (original): The method of claim 1 wherein encoding occurs without skipping a frame of the input bitstream.
 - 3. (original): The method of claim 1 further comprising: determining an anticipated finishing time for the encoding.
- 4. (original): The method of claim 3 wherein determining the severity of the overrun is based on upon the anticipated finishing time.
 - 5. (original): The method of claim 1 wherein determining the overrun occurs before encoding a next frame.
 - 6. (original): The method of claim 1 wherein a subsequent overrun does not occur during the catch-up processing.

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- 7. (original): அந்தொethod of claim 1 wherein a plurality of catch-up modes and of claim இல tavailable to speed-up encoding of the bitstream.
 - 8. (original): The method of claim 1 wherein the catch-up mode contains a plurality of rate control processes.
 - 9. (original): A system comprising:

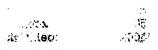
a catch-up controller to determine an overrun in the encoding of an input bitstream and to determine the severity of the overrun; and

an encoder to encode a current frame using at least one catch-up mode to process the overrun.

- 10. (original): The system of claim 9 wherein the encoder encodes the input bitstream without skipping a frame of the input bitstream.
- 11. (original): The system of claim 9 wherein the encoder further determines an anticipated finishing time for the encoding.
- 12. (original): The system of claim 11 wherein the encoder determines the severity of the overrun based upon the anticipated finishing time.
- 13. (original): The system of claim 9 wherein the encoder determines the overrun before encoding a next frame.
- 14. (original): The system of claim 9 wherein a subsequent overrun does not occur during the catch-up processing.

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valiable to speed up encoding the bits reading

- 16. (original): The system of claim 9 wherein the catch-up mode contains a plurality of rate control processes.
- 17. (currently amended): The system of claim 16 wherein each of the plurality of rate centerl control processes avoids quality loss of the bitstream.
- 18. (original): The system of claim 9 wherein the encoder uses a plurality of catch-up modes to produce short catch-up times and good catch-up quality.
- 19. (original): A system comprising: means for determining an overrun; means for determining the severity of the overrun; and means for encoding a current frame using at least one catch-up modes to process the overrun.
- 20. (original): A computer readable medium comprising instructions, which when executed on a processor, perform a method for timeshifting the encoding and decoding of a bitstream, the system comprising:

means for determining an overrun;

means for determining the severity of the overrun; and

means for encoding a current frame using at least one catch-up modes to process the overrun.

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